# Power (ignition) switch

Performing the following operations when carrying the electronic key on your person starts the hybrid system or changes power switch modes.

## Starting the hybrid system

- 1 Turn the power switch to ON mode ( $\rightarrow$ P. 221) and check that the parking brake is set.
- 2 Check that the shift lever is set in P.
- Firmly depress the brake pedal.

The power switch indicator will turn green. If the indicator does not turn green, the hybrid system cannot be started.

4 Press the power switch.

After a while, the "READY" indicator comes on with a beep sound.

The vehicle can move when the "READY" indicator is on even if the engine is stopped.

Continue depressing the brake pedal until the hybrid system is completely started.

The hybrid system can be started from any power switch mode.



**5** Check that the "READY" indicator is on.

The vehicle will not move when the "READY" indicator is off.

- 1 Stop the vehicle.
- 2 Shift the shift lever to P.
- **3** Set the parking brake.  $(\rightarrow P. 232)$
- 4 Press the power switch.
- **5** Release the brake pedal and check that the indicator on the power switch is off.

## Changing power switch modes

Modes can be changed by pressing the power switch with brake pedal released. (The mode changes each time the switch is pressed.)

(1) Off\*

The emergency flashers can be used.

2 ACCESSORY mode

Some electrical components such as the audio system can be used.

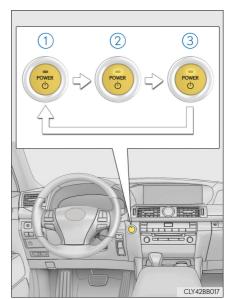
The power switch indicator turns amber.

## (3) ON mode

All electrical components can be used.

The power switch indicator turns amber.

\*: If the shift lever is in a position other than P when turning off the hybrid system, the power switch will be turned to ACCESSORY mode, not to off.



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Driving

#### ■ Auto power off function

If the vehicle is left in ACCESSORY mode for more than 20 minutes with the shift lever in P, the power switch will automatically turn off.

## ■ Sounds and vibrations specific to a hybrid vehicle

 $\rightarrow$ P.80

## ■ Electronic key battery depletion

→P 139

# lacktriangle When the ambient temperature is low, such as during winter driving conditions

It may take time until the "READY" indicator comes on.

## ■ Conditions affecting operation

 $\rightarrow$ P.136

## ■ Notes for the entry function

 $\rightarrow$ P. 137

## ■ If the hybrid system does not start

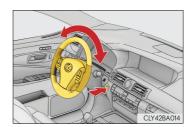
The immobilizer system may not have been deactivated.  $(\rightarrow P. 89)$  Contact your Lexus dealer.

## ■ Steering lock

After turning the power switch off and opening and closing the doors, the steering wheel will be locked due to the steering lock function. Operating the power switch again automatically cancels the steering lock.

## ■ When the steering lock cannot be released

The green indicator light on the power switch will flash and a message will be shown on the multi-information display. Press the power switch again while turning the steering wheel left and right.



## ■ Steering lock motor overheating prevention

To prevent the steering lock motor from overheating, the motor may be suspended if the hybrid system is turned on and off repeatedly in a short period of time. In this case, refrain from operating the hybrid system. After about 10 seconds, the steering lock motor will resume functioning.

The system may be malfunctioning. Have the vehicle inspected by your Lexus dealer immediately.

#### ■ If the "READY" indicator does not come on

If the "READY" indicator does not come on when you press the power switch with the shift lever in P and the brake pedal depressed, contact your Lexus dealer immediately.

- If the hybrid system is malfunctioning
  - $\rightarrow$ P. 815
- If the electronic key battery is depleted
  - $\rightarrow$ P. 784
- If the smart access system with push-button start has been deactivated in a customized setting
  - $\rightarrow$ P. 833

## CAUTION

## ■ When starting the hybrid system

Always start the hybrid system while sitting in the driver's seat. Do not depress the accelerator pedal while starting the hybrid system under any circumstances. Doing so may cause an accident resulting in death or serious injury.

#### Caution while driving

If hybrid system failure occurs while the vehicle is moving, do not lock or open the doors until the vehicle reaches a safe and complete stop. Activation of the steering lock in this circumstance may lead to an accident, resulting in death or serious injury.

## Stopping the hybrid system in an emergency

If you want to stop the hybrid system in an emergency while driving the vehicle, press and hold the power switch for more than 2 seconds, or press it briefly 3 times or more in succession.  $(\rightarrow P.797)$ 

However, do not touch the power switch while driving except in an emergency. Turning the hybrid system off while driving will not cause loss of steering or braking control, but the power assist to these systems will be lost. This will make it more difficult to steer and brake, so you should pull over and stop the vehicle as soon as it is safe to do so.

## **⚠** NOTICE

## ■ To prevent 12-volt battery discharge

Do not leave the power switch in ACCESSORY or ON mode for long periods of time without the hybrid system on.

## ■ When starting the hybrid system

- Do not depress the accelerator pedal unnecessarily.
- If the hybrid system becomes difficult to start, have your vehicle checked by your Lexus dealer immediately.

## ■ Symptoms indicating a malfunction with the power switch

If the power switch seems to be operating somewhat differently than usual, such as the switch sticking slightly, there may be a malfunction. Contact your Lexus dealer immediately.

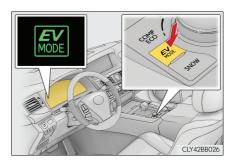
In EV drive mode the electric motor (traction motor), powered by the hybrid battery (traction battery), is used to drive the vehicle.

This mode allows you to drive in residential areas early in the morning and late at night, or in indoor parking lots etc. without concern for noises and gas emissions.

However, when the vehicle proximity notification system is active, the vehicle may produce sound.

Turns EV drive mode on/off

When EV drive mode is turned on, the EV drive mode indicator will come on. Pressing the switch when in EV drive mode will return the vehicle to normal driving (using the gasoline engine and electric motor [traction motor]).



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Driving

## ■ Situations in which EV drive mode cannot be turned on

It may not be possible to turn EV drive mode on in the following situations. If it cannot be turned on, a buzzer will sound and a message will be shown on the multi-information display.

- The temperature of the hybrid system is high.

  The vehicle has been left in the sun, driven on a hill, driven at high speeds, etc.
- The temperature of the hybrid system is low.
  The vehicle has been left in temperatures lower than about 32°F (0°C) for a long period of time etc.
- The gasoline engine is warming up.
- The hybrid battery (traction battery) is low.
  The remaining battery level indicated in the "Energy Monitor" display is low.
  (→P. 114)
- Vehicle speed is about 25 mph (40 km/h) or more.
- The accelerator pedal is depressed firmly or the vehicle is on a hill etc.
- The windshield defogger is in use.

#### Automatic cancelation of EV drive mode

When driving in EV drive mode, the gasoline engine may automatically restart in the following situations. When EV drive mode is canceled, a buzzer will sound and the EV drive mode indicator will flash and go off.

- The hybrid battery (traction battery) becomes low. The remaining battery level indicated in the "Energy Monitor" display is low.  $(\to P.114)$
- Vehicle speed becomes more than about 25 mph (40 km/h).
- The accelerator pedal is depressed firmly or the vehicle is on a hill etc.

When it is possible to inform the driver of automatic cancelation in advance, a prior notice screen will appear on the multi-information display.

## ■ Possible driving distance when driving in EV drive mode

EV drive mode's possible driving distance ranges from a few hundred meters to approximately 0.6 mile (1 km). Driving is possible at speeds of less than approximately 25 mph (40 km/h). However, depending on vehicle conditions, there are situations when EV drive mode cannot be used. (The distance that is possible depends on the hybrid battery [traction battery] level and driving conditions.)

#### ■ Fuel economy

Your Lexus is designed to achieve the best possible fuel economy during normal driving (using the gasoline engine and electric motor [traction motor]). Driving in EV drive mode more than necessary may lower fuel economy.



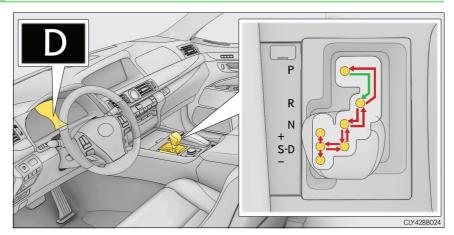
## **A** CAUTION

#### Caution while driving

When driving in EV drive mode no engine noise is made. As such, pedestrians, people riding bicycles or other people and vehicles in the surrounding area may not be aware of the vehicle starting off or approaching them. Therefore, take extra care while driving even if the vehicle proximity notification system is active.

# **Hybrid transmission**

## Shifting the shift lever



While the power switch is in ON mode, move the shift lever with the brake pedal depressed.

When shifting the shift lever between  $\mbox{\ensuremath{P}}$  and  $\mbox{\ensuremath{D}}$ , make sure that the vehicle is completely stopped.

## Shift position purpose

Shift position	Purpose and condition
Р	Parking the vehicle/starting the hybrid system
R	Reversing
N	Condition in which the power is not transmitted
D	Normal driving*1
S	S mode driving <sup>*2</sup> (→P. 228)

<sup>\*1:</sup> To improve fuel efficiency and reduce noises, set the shift lever in D for normal driving.

 $<sup>^{*2}</sup>$ : By selecting shift ranges using S mode, you can control accelerating forces and engine braking forces.

## Selecting shift ranges in S mode

To enter S mode, shift the shift lever to the S position.

Changing the shift range allows restriction of the highest shift range, preventing unnecessary upshifting and enabling the level of engine braking force to be selected.

Also, by controlling the transmission so that engine speed is higher when compared with normal driving, acceleration response is improved.

The shift range can be selected by the shift lever.

- (1) Upshifting
- 2 Downshifting

The selected shift range, from S1 to S8, will be displayed in the meter.

The initial shift range in S mode is automatically set to S4, S5, S6 or S7 according to vehicle speed.



## ■ Shift ranges and their functions

- You can choose from 8 levels of accelerating force and engine braking force.
- A lower shift range will provide greater accelerating force and engine braking force than a higher shift range, and the engine speed will also increase.
- If you accelerate while in ranges 1 to 5, the shift range may automatically range up in accordance with the vehicle's speed.

## ■ Sport mode/Comfort mode/Eco drive mode

→P.309

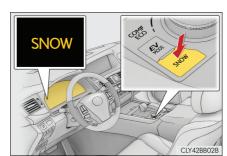
## ■ Snow mode

Snow mode can be selected to suit the conditions when driving on slippery road surfaces, such as on snow.

Press the switch.

The snow mode indicator light will come on.

Press the switch again to return to normal mode.



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Driving

#### ■S mode

- When the shift range is 6 or lower, holding the shift lever toward "+" sets the shift
- When the shift lever is moved toward "-", the shift range is downshifted to a range that enables engine braking force that is suitable to driving conditions.

#### ■ Downshifting restrictions warning buzzer (in the S mode)

To help ensure safety and driving performance, downshifting operation may sometimes be restricted. In some circumstances, downshifting may not be possible even when the shift lever is operated. (A buzzer will sound twice.)

## ■ When driving with cruise control or dynamic radar cruise control with full speed range activated

Even when performing the following actions with the intent of enabling engine braking, engine braking will not activate because cruise control or dynamic radar cruise control with full speed range will not be canceled.

- While driving in S mode, downshifting to 7, 6, 5 or 4.  $(\rightarrow P. 257, 261)$
- When switching the driving mode to sport mode while driving in D position.  $(\rightarrow P.309)$

## Snow mode automatic deactivation

Snow mode is automatically deactivated if the power switch is turned off after driving in snow mode.

## ■ If the shift lever cannot be shifted from P

→P.830

## **A** CAUTION

## When driving on slippery road surfaces

Be careful of downshifting and sudden acceleration, as this could result in the vehicle skidding to the side or spinning.

## ♠ NOTICE

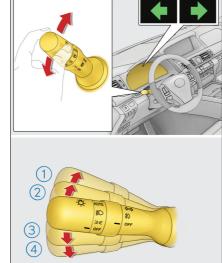
#### Hybrid battery (traction battery) charge

If the shift lever is in N, the hybrid battery (traction battery) will not be charged even when the engine is running. Therefore, if the vehicle is left with the shift lever in N for a long period of time, the hybrid battery (traction battery) will discharge, and this may result in the vehicle not being able to start.

# Turn signal lever

## Operating instructions

- 1 Right turn
- 2 Lane change to the right (move the lever partway and release it) The right hand signals will flash 3 times.
- 3 Lane change to the left (move the lever partway and release it)
  The left hand signals will flash 3 times.
- (4) Left turn



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Driving

CLY42BA049

## ■ Turn signals can be operated when

The power switch is in ON mode.

- If the indicator flashes faster than usual
  - Check that a light bulb in the front or rear turn signal lights has not burned out.
- If the turn signals stop flashing before a lane change has been performed Operate the lever again.
- To discontinue flashing of the turn signals during a lane change Operate the lever in the opposite direction.
- Customization

The number of times the turn signals flash during a lane change can be changed. (Customizable feature  $\rightarrow$  P. 874)

# Parking brake

## A selections can be made as desired from the following modes.

## Manual mode

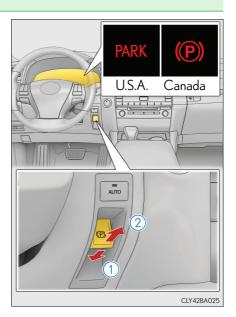
## 1 Sets the parking brake

The parking brake indicator light will come on.  $(\rightarrow P. 234)$ 

Press and hold the parking brake switch if an emergency occurs and it is necessary to operate the parking brake while driving. The parking brake is applied only while the switch is being pressed.

## (2) Releases the parking brake

Operate the parking brake switch while depressing the brake pedal. Make sure that the parking brake indicator light goes off.



The parking brake is set or released automatically according to shift lever operation.

Turns automatic mode on/off

When automatic mode is turned on, it operates in the following manner:

- When the shift lever is moved into P, the parking brake will be set.
- When the shift lever is moved out of P, the parking brake will be released.

Operate the shift lever with the brake pedal depressed.



## ■ Parking brake operation

- When the power switch is not in ON mode, the parking brake cannot be released using the parking brake switch.
- When the power switch is not in ON mode, automatic mode (automatic brake setting and releasing) is not available.
- If the parking brake is operated repeatedly over a short period of time, the system may restrict operation to prevent overheating. If this happens, refrain from operating the parking brake. Normal operation will return after about 1 minute.

## ■ Parking brake operation sound

When the parking brake operates, a motor sound (whirring sound) may be heard. This does not indicate a malfunction.

#### ■ Parking brake indicator light

• Depending on the power switch mode, the parking brake indicator light will come on and stay on as described below:

ON mode: Comes on until the parking brake is released. Not in ON mode: Stays on for approximately 15 seconds.

• When the power switch is turned off with the parking brake set, the parking brake indicator light will stay on for about 15 seconds. This does not indicate a malfunction.

## ■ Parking brake engaged warning buzzer

A buzzer will sound if the vehicle is driven at a speed of approximately 3 mph (5 km/h) or more with the parking brake engaged.

## ■ When there is a malfunction in the system

Warning lights and/or warning message will turn on or flash.  $(\rightarrow P. 807, 815)$ Depending on the condition, the parking brake indicator light may flash.

## ■ Usage in winter time

 $\rightarrow$ P. 353



## ♠ NOTICE

#### ■ When parking the vehicle

Before you leave the vehicle, set the parking brake, shift the shift lever to P and make sure that the vehicle does not move.

## ■ When the system malfunctions

Stop the vehicle in a safe place and check the warning messages.

## ■ When the parking brake cannot be released due to a malfunction

Use the parking brake release tool to manually release the parking brake.  $(\to P. 831)$ 

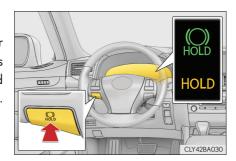
Driving the vehicle with the parking brake set will lead to brake components overheating, which may affect braking performance and increase brake wear.

# **Brake Hold**

The brake hold system keeps the brake applied when the shift lever is in D, S or N with the system on and the brake pedal has been depressed to stop the vehicle. The system releases the brake when the accelerator pedal is depressed with the shift lever in D or S to allow smooth start off.

Turns the brake hold system on

The brake hold standby indicator (green) comes on. While the system is holding the brake, the brake hold operated indicator (yellow) comes on.



## ■ Brake hold system operating conditions

The brake hold system cannot be turned on in the following conditions:

- The trunk or hood is not closed.
- The driver's door is not closed.
- The driver is not wearing the seat belt.

If any of the conditions above are detected when the brake hold system is enabled, the system will turn off and the brake hold standby indicator light will go off. In addition, if any of the conditions are detected while the system is holding the brake, a warning buzzer will sound and a message will be shown on the multi-information display. The parking brake will then be set automatically.

#### ■ Brake hold function

- If the brake pedal is left released for a period of about 3 minutes after the system has started holding the brake, the parking brake will be set automatically. In this case, a warning buzzer sounds and a message is shown on the multi-information display.
- To turn the system off while the system is holding the brake, firmly depress the brake pedal and press the switch again.
- The brake hold function may not hold the vehicle when the vehicle is on a steep incline. In this situation, it may be necessary for the driver to apply the brakes. The multi-information display will inform the driver of this situation.

## ■ When the parking brake is set automatically while the system is holding the brakes

The parking brake will not be released automatically. Release the parking brake by operating the parking brake switch, making sure that the parking brake indicator light goes off.  $(\rightarrow P. 232)$ 

## ■ When there is a malfunction in the system

Warning lights and/or warning messages will turn on or flash.  $(\rightarrow P. 807, 815)$ 

## **A** CAUTION

# ■ When the vehicle is on a steep incline

When using the brake hold system on a steep incline exercise caution. The brake hold function may not hold the vehicle in such a situation.

## ■ When stopped on a slippery road

The system cannot stop the vehicle when the gripping ability of the tires has been exceeded. Do not use the system when stopped on a slippery road.

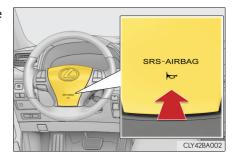
## ♠ NOTICE

## ■ When parking the vehicle

The brake hold system is not designed for use when parking the vehicle for a long period of time. Turning the power switch off while the system is holding the brake may release the brake, which would cause the vehicle to move. When operating the power switch, depress the brake pedal, set the parking brake and shift the shift lever to P.

# Horn

To sound the horn, press on or close to the mark.



4

Driving